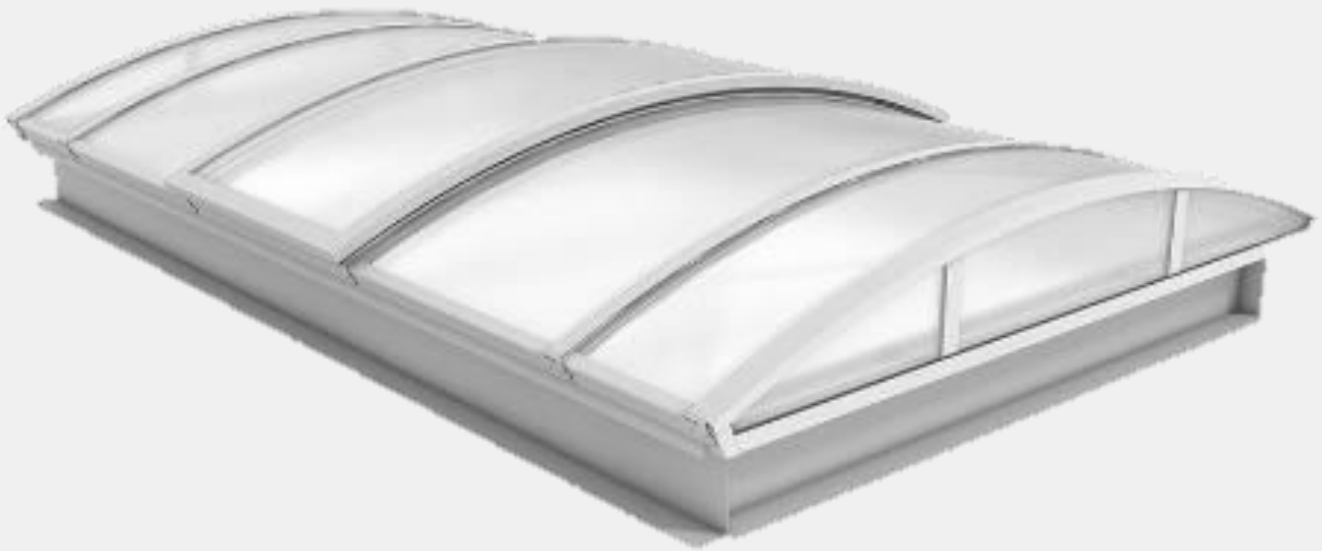




Kingspan Arcade Plus Rooflight

NBS Specification



NBS clause:

L10 Windows/ Rooflights/ Screens/ Louvres - 460 ROOFLIGHTS

Kingspan Arcade Plus Rooflight

Detailed description

Arched rooflights that can be used for natural daylighting, ventilation and smoke and heat extraction.

The rooflight flap comprises multi-chambered polycarbonate panels of the same thickness as the rest of the arcade rooflight, in a thermally broken aluminium-PVC frame. The flaps can be opened for daily aeration and ventilation as well as for smoke extraction.

Features and benefits:

- A range of options and accessories allow versatile functionality.
- Offers enhanced thermal performance to meet project specific requirements.
- Thermally broken profile and flap system
- Can be designed as a melt out surface in the event of fire, or a smoke and heat extraction source.
- Non-fragility to ACR (M)001:2014, Class B.

Applications:

- Suitable for commercial and industrial roofing applications (including retail and leisure) up to a maximum pitch of 20° (if parallel to a ridge, maximum pitch of 5°).
- Suitable for use on all roof systems for both new builds and refurbishment projects.
- Energy optimized renovations

Product guidance - As Standard

Material:

- Bearing structure: Extruded aluminium and PVC, thermally broken design.
- Base and span: Aluminium.
- Panel: Multi-chambered polycarbonate.
- Hinges and screws: Stainless steel / galvanized steel

Fire performance (to BS EN 13501):

Class B-s1-d0 for PC 16/7 and PC 20/7, all aside are class E

Options

Width:

The bearing structure consists of natural blank, extruded aluminium sections placed 1060 mm apart, 703 mm apart or 530 mm apart depending on required wind load and/or snow load.

Flap

Flap type (full, side and ridge) will vary dependent on size chosen and span width. Consult manufacturer's literature for information.

Product specification

Manufacturer

- Name: Kingspan Light + Air
- Web: www.kingspanlightandair.co.uk
- Email: info@kingspanlightandair.com
- Tel: +44 (0)2920 776160
- Address: Mellyn Mair Business Centre, Lamby Industrial Park,
Wentloog Avenue, Cardiff, Wales CF3 2EX

Product reference Kingspan Arcade Plus Rooflight

Width [_____]

Ridge flap (w x l):

- Not required
- 1500 x 2000 mm
- 2500 x 1000 mm
- 2500 x 2000 mm

Full flap (w x l):

- 1000-2520 x 1000 mm
- 1000-2520 x 2000 mm

Glazing

- PC 16/ 7 - 2000–6000 mm span width. 1.8 W/m² K. 21 dB. Light transmission 45%. 46 g-value.
- PC 20/ 7 - 2500–6000 mm span width. 1.6 W/m² K. 23 dB. Light transmission 44%. 45 g-value.
- PC 10/ 4 + 10/ 4 - 1000–6000 mm span width. 1.7 W/m² K. 24 dB. Light transmission 37%. 43 g-value.
- PC 10/ 4 + glass mat + PC 10/ 4 - 1000–6000 mm span width. 1.7 W/m² K. 24 dB. Light transmission 27%. 33 g-value.
- PC 16/ 7 + 10/ 4 - 2000–6000 mm span width. 1.3 W/m² K. 24 dB. Light transmission 28%. 37 g-value.
- PC 16/ 7 + glass mat + PC 10/ 4 - 2000–6000 mm span width. 1.3 W/m² K. 24 dB. Light transmission 20%. 29 g-value.
- PC 16/ 7 + 6 mm PETG - 2000–6000 mm span width. 1.8 W/m² K. 30 dB. Light transmission 38%. 43 g-value.
- PC 16/ 7 + PC 16/ 7 - 2000–6000 mm span width. 1.1 W/m² K. 25 dB. Light transmission 21%. 28 g-value.
- PC 10/ 2 Aerotech - 1000–3300 mm span width. 2.0 W/m² K. 21dB. Light transmission 74%. 71 g-value.
- PC 16/ 3 Aerotech - 2000–3500 mm span width. 1.3 W/m² K. 21 dB. Light transmission 65%. 64 g-value.

NBS

Specification

Kingspan Arcade Plus Rooflight
2019/06

PC 20/ 3 Aerotech - 2500–3500 mm span
width. 1.1 W/m² K. 21 dB. Light transmission 63%.
63 g-value

Accessories

[Not required]

[Smoke and heat extraction system (SHE)] -

Opens the arcade rooflight flap to 150–170° when activated.

[Ventilation motor] - Standard lift of 300 mm.

Enables opening for daily aeration.

NBS Specification

Kingspan Arcade Plus Rooflight
2019/06

UK

Kingspan Light + Air

Mellyn Mair Business Centre
Lamby Industrial Park
Wentloog Avenue
Cardiff, CF3 2EX
T: +44 (0) 29 2077 6160

Kingspan Light + Air

North East of England Business Centre
Wearfield Enterprise Park
Sunderland, SR5 2TA
T: +44 (0) 191 5166253
E: info@kingspanlightandair.com
www.kingspanlightandair.co.uk

Ireland

Kingspan Light + Air

Carrickmacross Road,
Kingscourt, Co. Cavan, A82 E897
T: +353 (0) 42 969 8500
F: +353 (0) 42 969 8572
E: info@kingspanlightandair.com
www.kingspanlightandair.ie

Care has been taken to ensure that the contents of this publication are accurate, but Kingspan Limited and its subsidiary companies do not accept responsibility for errors or for information that is found to be misleading. Suggestions for, or description of, the end use or application of products or methods of working are for information only and Kingspan Limited and its subsidiaries accept no liability in respect thereof.